JC03 Rec'd PCT/PTO 22 APR 2005

PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER 433165

U.S. APPLICATION NO (If known see 37 CFR 1.

CONCERNING A SUBMISSIO	N UNDER 35 U.S.C. 371	Not Yet Assigned 0732433					
INTERNATIONAL APPLICATION NO. PCT/US2003/33522	INTERNATIONAL FILING DATE 23 October 2003	PRIORITY DATE CLAIMED 23 October 2002					
TITLE OF INVENTION SYSTEMS AND METHODS THAT DETE	CT CHANGES IN INCIDENT OPTI	CAL RADIATION					
APPLICANT(S) FOR DO/EO/US Philip Heinz and Elsa Garmire							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. The US has been elected (Article 31).							
5. A copy of the International Application	A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
a. is attached hereto (required only if not communicated by the International Bureau).							
b. has been communicated by	b. has been communicated by the International Bureau.						
c. is not required, as the applic	c. ris not required, as the application was filed in the United States Receiving Office (RO/US).						
6. An English language translation of the	e International Application as filed (35 U.S.	C. 371(c)(2)).					
a. is attached hereto.	a. is attached hereto.						
b. I has been previously submit	ted under 35 U.S.C. 154(d)(4).						
7. Amendments to the claims of the Inte	7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated	b. have been communicated by the International Bureau.						
c. have not been made; howe	c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. Have not been made and v	d. have not been made and will not be made.						
8. An English language translation of th	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. An oath or declaration of the inventor	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary	Examination Report under PCT					
Items 11 to 20 below concern document(s) or information included:						
11. An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.						
12. An assignment document for recording	ng. A separate cover sheet in compliance w	vith 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.							
14. An Application Data Sheet under 37 0	OFR 1.76.						
15. A substitute specification.							
16. A power of attorney and/or change of	address letter.						
17. A computer-readable form of the sequ	uence listing in accordance with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.					
18. A second copy of the published Interr	national Application under 35 U.S.C. 154(d)(4).					
· ·	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).						
20 (V) Other items or information: Form 1	449. Copy of 5 References, C	Certificate of Mailing & Return Post Card					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION Not Yet As		1, see 37 CFR 1.5	5) INTERNATIONAL AF PCT/US2003/33		ATTORNEY'S DOCKET NUMBER 433165	
	wing fees have b	peen submitted	3		CALCULATIONS	PTO USE ONLY
	•			\$300	\$ 300	
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)			\$ 200			
Internation International Searce	R 1.445(a)(2)) h al Searching Au ch Report prepar	thorityred and provided	the international application to	\$100 \$400	\$ 400	
т	OTAL OF 21, 2	2 and 23 =			\$ 900	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets		ch additional 50 or fraction i up to a whole number)	RATE		
33 - 100 =	0 /50 =			x \$250	\$ O	
	.00 for furnishing	g the oath or dec	claration later than 30 months fr	rom the earliest	\$	
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$	
Total claims	26	- 20 =	6	x \$50	\$ 300	
Independent claim	s 5	- 3 =	2	x \$200	\$ 400	
MULTIPLE DEPE	NDENT CLAIM(S	S) (if applicable)		+ \$360	\$	
				CALCULATIONS =	\$ 1,600	
Applicant clair	ns small entity s	tatus. See 37 CF	R 1.27. Fees above are reduc	ced by 1/2.		
				SUBTOTAL =	\$ 800	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$			
			TOTAL	NATIONAL FEE =	\$ 800	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ 40		
			TOTAL F	EES ENCLOSED =	\$ 840	
				···	Amount to be refunded:	\$
			<u></u>		Amount to be charged:	\$ 840.
a. A check	in the amount of	f \$	to cover the abo	ove fees is enclosed.		
b. Please charge my Deposit Account No. 12-0600 in the amount of \$ 840 to cover the above fees. A duplicate copy of this sheet is enclosed.						
	nmissioner is her No. <u>12-0600</u>		o charge any additional fees whopy of this sheet is enclosed.	hich may be required,	or credit any overpayme	ent to Deposit
			VARNING: Information on this card information and authorize		olic. Credit card Informa	ation should not
			7 CFR 1.495 has not been me tion to pending status.	t, a petition to revive	(37 CFR 1.137(a) or (b)) must be filed
SEND ALL CORR	ESPONDENCE	TO:		Uden Han	. D	
	CUSTOMER NUMBER 30955 SIGNATURE					
	ATHROP & GAGE LC 845 Pearl East Circle Heather F. Perrin					
Suite 300				NAME	<u></u>	
Boulder, Colorado Telephone: (720)				52,884		
Facsimile: (720) 931-3001 REGISTRATION NUMBER				· · · · · · · · · · · · · · · · · · ·		

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CERTIFICATE OF			Matter No.					
EXPRESS MAIL PO	OST OFFICE TO ADDRI	ESSEE (37 CFR 1.10)						
Applicant(s): Philip	433165							
Serial No.	Filing Date	Examiner	Group Art Unit					
Not Yet Assigned	Herewith	Not Yet Assigned	Not Yet Assigned					
Invention SYSTEMS AND METHODS THAT DETECT CHANGES IN INCIDENT OPTICAL RADIATION								